

Federal Energy Management Program

Leading By Example to Improve Energy Security

Implementing Smart Solutions

Now, more than ever before, the Federal government—the largest single energy consumer in the United States—has both a tremendous opportunity and a clear responsibility to lead the nation by example toward greater energy efficiency. The Department of Energy's Federal Energy Management Program (FEMP) plays a central role, with a mandate to help Federal agencies implement smart energy management solutions that result in significant savings to taxpayers.

Chartered in 1973, FEMP works with facility managers, engineers, architects, contract specialists, and utilities to save energy and money at Federal facilities. FEMP services promote energy efficiency, water conservation, and the use of distributed and renewable energy, as well as improved utility management decisions. Since 1985, Federal building-related energy usage has actually dropped more than 20 percent per square foot, thanks in large part to the work of FEMP and Federal agency energy champions.

FEMP services are grouped into four areas:

- **Financing services** help Federal agencies leverage funds through new financing partnerships with the private sector for energy efficiency improvements. FEMP assists agencies seeking project financing through methods such as Energy Savings Performance Contracts (ESPCs), Utility Energy Services Contracts (UESCs), rebates, and public benefits funds.
- **Technical assistance** helps Federal energy managers incorporate energy efficiency, renewable energy, distributed energy technologies, sustainable design practices, and water-saving technologies in new construction and retrofit projects. FEMP's services include energy audits, operations and maintenance assessments, laboratory design protocols, new technology information, and guidance for purchasing energy-efficient products.
- **Outreach** helps agencies learn about new energy-saving strategies, gain recognition for outstanding energy achievements, and keep current on the government's progress in meeting mandated energy management goals. Communications and recognition programs heighten employees' awareness of the benefits of energy

Saving Energy and Resources

In the National Energy Policy, the President directs heads of executive departments and Federal agencies to conserve energy use at their facilities "to the maximum extent consistent with the effective discharge of public responsibilities."

By helping Federal facility managers save energy and resources, FEMP improves our nation's security and environment.

FEMP Benefits:

- Saves taxpayer dollars through guaranteed energy cost savings
- Protects air quality and conserves water
- Contributes to the nation's energy and economic security
- Demonstrates Federal leadership in smart energy management
- Enhances energy supplies and improves reliability through distributed energy resources.

efficiency. Outreach efforts include the *FEMP Focus* newsletter, the FEMP website and information clearinghouse, the *You Have the Power* campaign, as well as annual awards, workshops, and expositions.

- **Policy-related activities** ensure coordination among agencies working to meet national energy efficiency goals. The Energy Policy Act of 1992, recent Executive Orders, and Presidential Directives all require Federal agencies to reduce their energy use by 35 percent by 2010 in comparison to 1985 levels. Federal agencies rely on effective coordination and sound guidance to help them meet this requirement. FEMP reports agencies' progress annually, manages interagency working groups, and offers policy guidance and direction.

Recognizing Excellence

Over the past 21 years, FEMP has recognized the outstanding contributions of more than 890 individuals and groups within Federal agencies through its energy management awards. In 2002, for example, FEMP recognized the Department of Defense Navy Shipboard Energy Conservation Team. The team's work captured fuel savings of more than one million barrels of fuel oil—equivalent to removing 68,000 sport utility vehicles from the nation's roads for a year—avoiding energy costs of \$41.7 million annually. One of the team's energy-saving measures involved the installation



of stern flaps on 61 ships, resulting in estimated savings of 203,000 barrels of fuel. When fully implemented (by 2005), the team's stern flap work alone will save 446,000 barrels of fuel, or \$18 million annually.

Since 1995, FEMP has designated more than 80 facilities as Federal Energy Saver Showcases. These showcases make use of technologies and strategies that range from low-energy building design and construction to geothermal heat pumps and distributed energy resources. In 2002, FEMP recognized the Department of Energy Lawrence Berkeley National Laboratory for reducing energy consumption by 35 percent compared to 1985 levels and water consumption by 65 percent compared to 1988 levels. Recent installations of the Berkeley Lamp, which uses 25 percent of the power of a 150-watt incandescent bulb without sacrificing luminous output, resulted in additional savings.

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.



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